

# Ameren Missouri BizSavers® Program Energy Savings Case Study

## Truman State University

When Truman State University began to evaluate upgrades to Violette Hall and their Student Union Building, the school placed efficiency and student comfort as first priority. By making the smart switch to LEDs and upgrading VFDs, chillers and other HVAC equipment, Truman State was able to reduce their annual electricity costs by more than \$69,000.

### Project Summary

The total project cost (before the incentive) of installing a VFD pump, Water Cooled Chiller, and several LED Lamps and fixtures was a little more than \$219,000. The project allowed the University to reduce their electricity load by 981,017 kWh per year which equates to 117 households of electricity for one year!

### Incentive

"Working through Ameren Missouri's energy efficiency incentive program to upgrade our chiller systems helped us meet commitments in our TRUImpact energy conservation action plan, and ultimately operate a more efficient campus." said Susan Thomas, president at Truman State University. By receiving a \$115,013 incentive, the University was able to significantly decrease their energy costs and create a better learning environment for their students. The project paid for itself in just 1.5 years!



### Technology

LED lighting is known for its low energy costs and long life. In fact, LED lamps can save up to 84% in energy costs as compared to incandescent lamps. They also generate less heat, reducing the impact on the HVAC load. Upgrading inefficient HVAC systems can significantly reduce a building's energy usage by 30-50%. Installing HVAC improvements like VFDs and upgraded chillers has several benefits besides energy savings including reduced maintenance costs, lengthening motor life and a short payback period. After completing the upgrades, Truman State University has been able to provide students with a healthier, more efficient environment to learn and grow.

### Facility Information

**Facility type:**  
College/University  
Buildings

**Measures:**  
VFDs, Chillers and Lighting

**Annual energy cost savings:**  
\$69,287

**Total kWh savings:**  
981,017

**Total project costs:**  
\$219,045

**Total incentives:**  
\$115,013

**Payback:**  
1.5 years

## Get Started Saving!

Find out how you can save at [AmerenMissouri.com/BizSavers](http://AmerenMissouri.com/BizSavers) or by contacting a Business Development Representative at [BizSavers@Ameren.com](mailto:BizSavers@Ameren.com) or **1.866.941.7299**. Ready to start saving now? Find an approved contractor at [TradeAllyNetwork.com](http://TradeAllyNetwork.com).